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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/03559

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N7/00 C12N15/00

Rec'd PCT/PTO 28 SEP 2004

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, BIOSIS, MEDLINE, EPO-Internal, PAJ, EMBL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	STOLL-BECKER SIMONE ET AL: "Transcription of hepatitis B virus in peripheral blood mononuclear cells from persistently infected patients" JOURNAL OF VIROLOGY, THE AMERICAN SOCIETY FOR MICROBIOLOGY, US, vol. 71, no. 7, 1997, pages 5399-5407, XP002149399 ISSN: 0022-538X the whole document --- -/--	1-13

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

4 December 2002

Date of mailing of the international search report

20/12/2002

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Panzica, G

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>GERNER P ET AL: "HEPATITIS B VIRUS CORE PROMOTER MUTATIONS IN CHILDREN WITH MULTIPLE ANTI-HBE/HBEAG REACTIVATIONS RESULT IN ENHANCED PROMOTER ACTIVITY" JOURNAL OF MEDICAL VIROLOGY, NEW YORK, NY, US, vol. 59, no. 4, December 1999 (1999-12), pages 415-423, XP001122838 the whole document</p>	1-13
A	<p>-----</p> <p>DATABASE EMBL 'Online! EMBO, Heidelberg, DE; YAN L. ET AL.: "First chinese HBV strain: genotype D complete sequence report" retrieved from EMBL, HEIDELBERG Database accession no. Q9IF40 XP002223623 abstract</p>	1-13
X	<p>-----</p> <p>NIESTERS H G M ET AL: "IDENTIFICATION OF A NEW VARIANT IN THE YMDD MOTIF OF THE HEPATITIS B VIRUS POLYMERASE GENE SELECTED DURING LAMIVUDINE THERAPY" JOURNAL OF MEDICAL MICROBIOLOGY, HARLOW, GB, vol. 51, no. 8, August 2002 (2002-08), pages 695-699, XP001122850 ISSN: 0022-2615 the whole document</p>	1-31
A	<p>-----</p> <p>WAKEFIELD J K ET AL: "IN VITRO ENZYMATIIC ACTIVITY OF HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 REVERSE TRANSCRIPTASE MUTANTS IN THE HIGHLY CONSERVED YMDD AMINO ACID MOTIF CORRELATES WITH THE INFECTIOUS POTENTIAL OF THE PROVIRAL GENOME" JOURNAL OF VIROLOGY, NEW YORK, US, US, vol. 66, no. 11, November 1992 (1992-11), pages 6806-6812, XP001122859 ISSN: 0022-538X abstract</p>	1-37
X	<p>-----</p> <p>TORRESI J ET AL: "RESTORATION OF REPLICATION PHENOTYPE OF LAMIVUDINE-RESISTANT HEPATITIS B VIRUS MUTANTS BY COMPENSATORY CHANGES IN THE FINGERS SUBDOMAIN OF THE VIRAL POLYMERASE SELECTED AS A CONSEQUENCE OF MUTATIONS IN THE OVERLAPPING S GENE" VIROLOGY, RAVEN PRESS, NEW YORK, NY, US, vol. 299, no. 1, 20 July 2002 (2002-07-20), pages 88-99, XP001126234 ISSN: 0042-6822 abstract</p> <p>-----</p> <p style="text-align: center;">-/--</p>	1-37

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DELANEY W E ET AL: "PHENYLPROPENAMIDE DERIVATIVES AT-61 AND AT-130 INHIBIT REPLICATION OF WILD-TYPE AND LAMIVUDINE-RESISTANT STRAINS OF HEPATITIS B VIRUS IN VITRO" ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, DC, US, vol. 46, no. 9, September 2002 (2002-09), pages 3057-3060, XP001122852 ISSN: 0066-4804 abstract</p>	1-37
A	<p>DELANEY W E ET AL: "RESISTANCE OF HEPATITIS B VIRUS TO ANTIVIRAL DRUGS: CURRENT ASPECTS AND DIRECTIONS FOR FUTURE INVESTIGATION" ANTIVIRAL CHEMISTRY & CHEMOTHERAPY, BLACKWELL SCIENTIFIC PUBL., LONDON, GB, vol. 12, no. 1, January 2001 (2001-01), pages 1-35, XP008005427 ISSN: 0956-3202 the whole document</p>	31-37
A	<p>GAILLARD R K ET AL: "KINETIC ANALYSIS OF WILD-TYPE AND YMDD MOTIF HEPATITIS B VIRUS POLYMERASE AND EFFECTS OF DEOXYRIBONUCLEOTIDE CONCENTRATIONS ON POLYMERASE ACTIVITY" ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, DC, US, vol. 46, no. 4, April 2002 (2002-04), pages 1005-1013, XP001122831 ISSN: 0066-4804 the whole document</p>	1-37
A	<p>JIN HEE HAN ET AL: "YMDD MOTIF MUTANTS IN HEPATITIS B VIRUS POLYMERASE DURING LAMIVUDINE THERAPY" KOREAN JOURNAL OF GENETICS - HAN'GUG YUJEON HAGHOEJI, HAN'GUG YUJEON HAGHOE, SEOUL,, KR, vol. 24, no. 2, June 2002 (2002-06), pages 219-226, XP001126247 ISSN: 0254-5934 abstract figures 3,4; tables 2,3</p>	1-31

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	TATTI K M ET AL: "MUTATIONS IN THE CONSERVED WOODCHUCK HEPATITIS VIRUS POLYMERASE FLA AND YMDD REGIONS CONFERRING RESISTANCE TO LAMIVUDINE" ANTIVIRAL RESEARCH, ELSEVIER SCIENCE BV., AMSTERDAM, NL, vol. 55, no. 1, July 2002 (2002-07), pages 141-150, XP001122832 ISSN: 0166-3542 the whole document	1-31
A	WO 98 21317 A (BARTHOLOMEUSZ ANGELINE INGRID ;LOCARNINI STEPHEN ALISTER (AU); WES) 22 May 1998 (1998-05-22) abstract	1-31
A	WO 00 61758 A (LITTLEJOHN MARGARET ;LOCARNINI STEPHEN (AU); AYRES ANNA (AU); BART) 19 October 2000 (2000-10-19) abstract figure 2	1-31
A	WO 00 58477 A (GENOME SCIENCE LAB CO LTD ;KOBAYASHI SATSUKI (JP)) 5 October 2000 (2000-10-05) abstract	1-31

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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